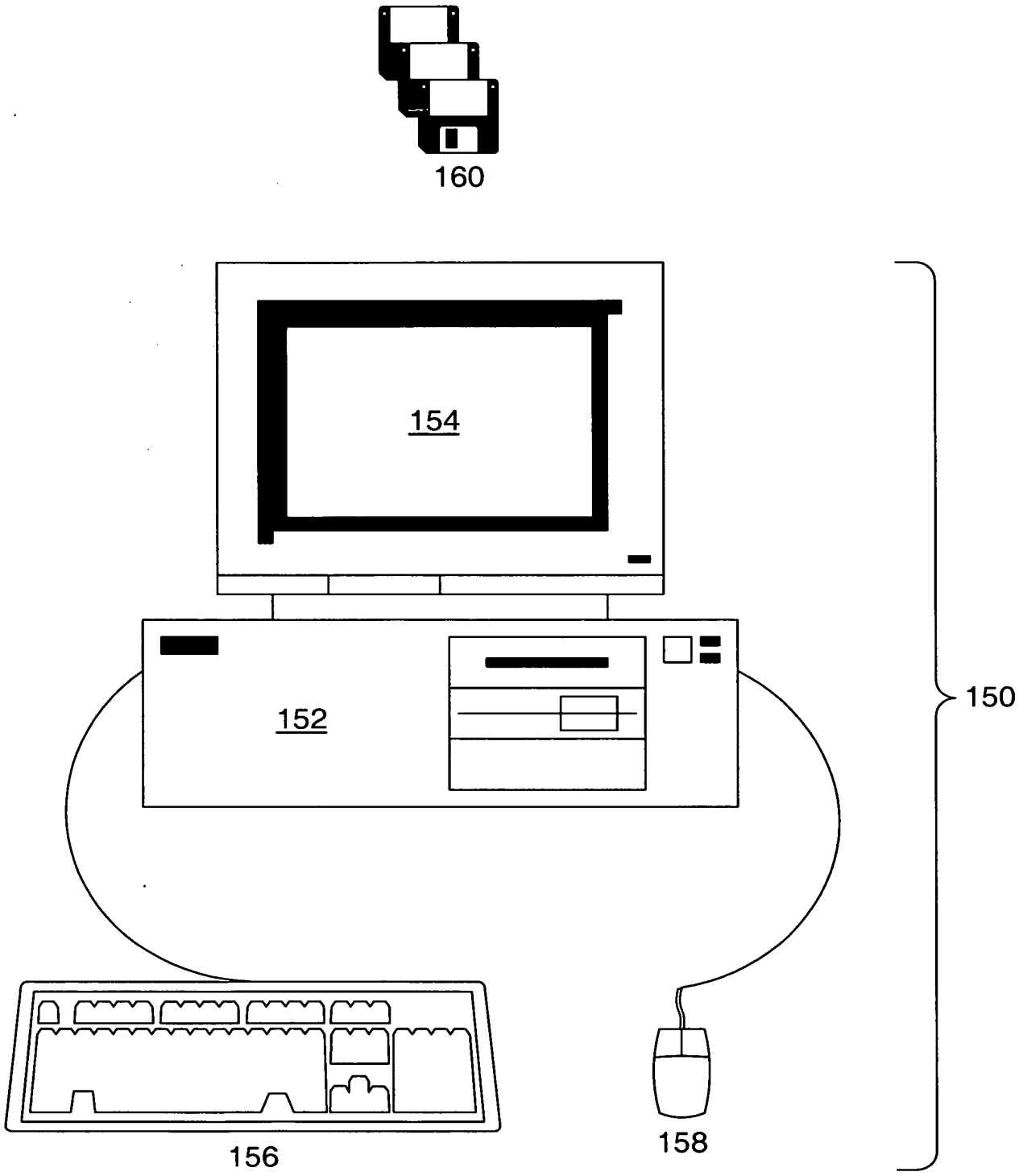


FIG. 1

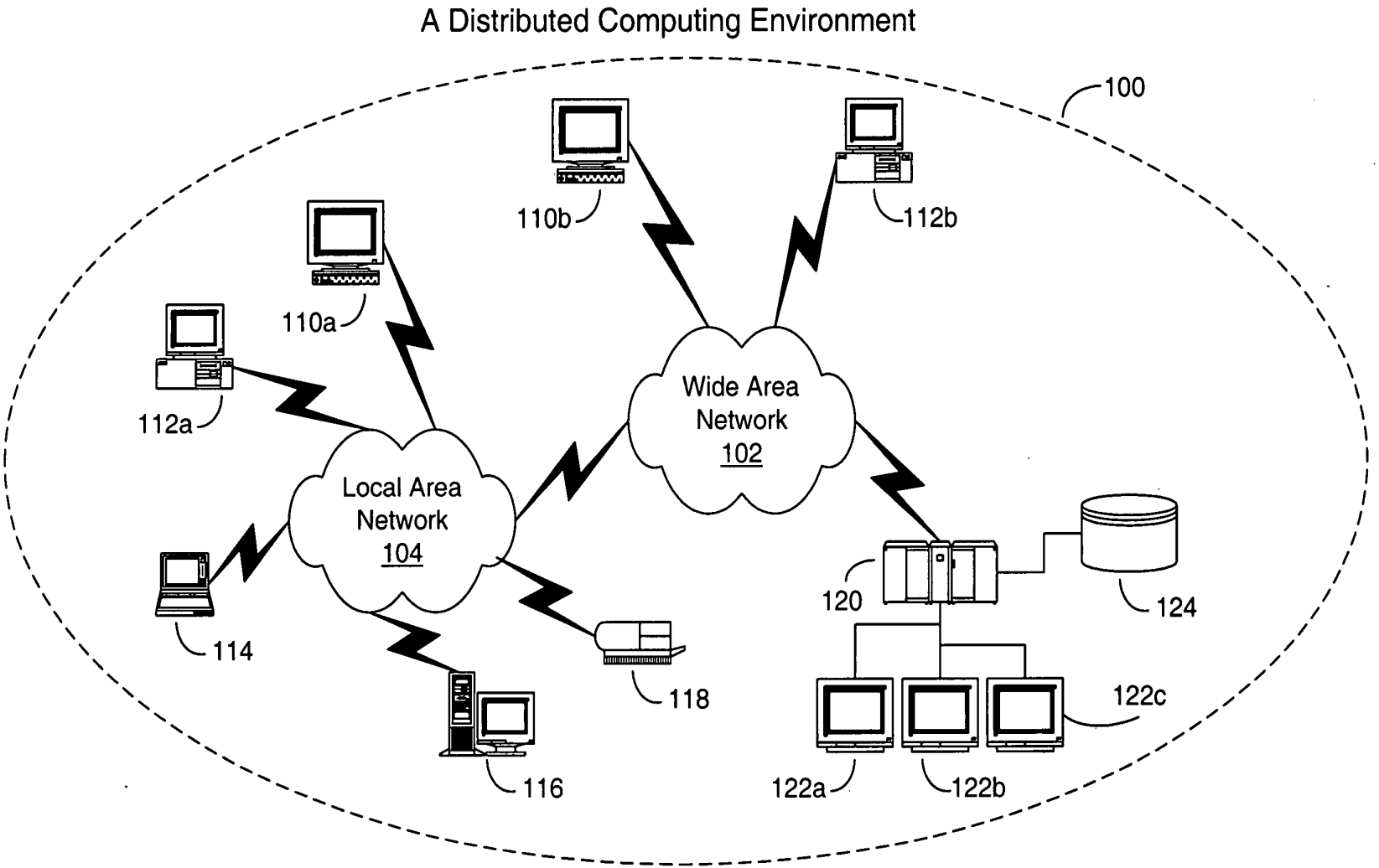

A Distributed Computing Environment
100
110b
112b
110a
112a
Wide Area Network 102
Local Area Network 104
114
118
116
120
124
122c
122a
122b

FIG. 2

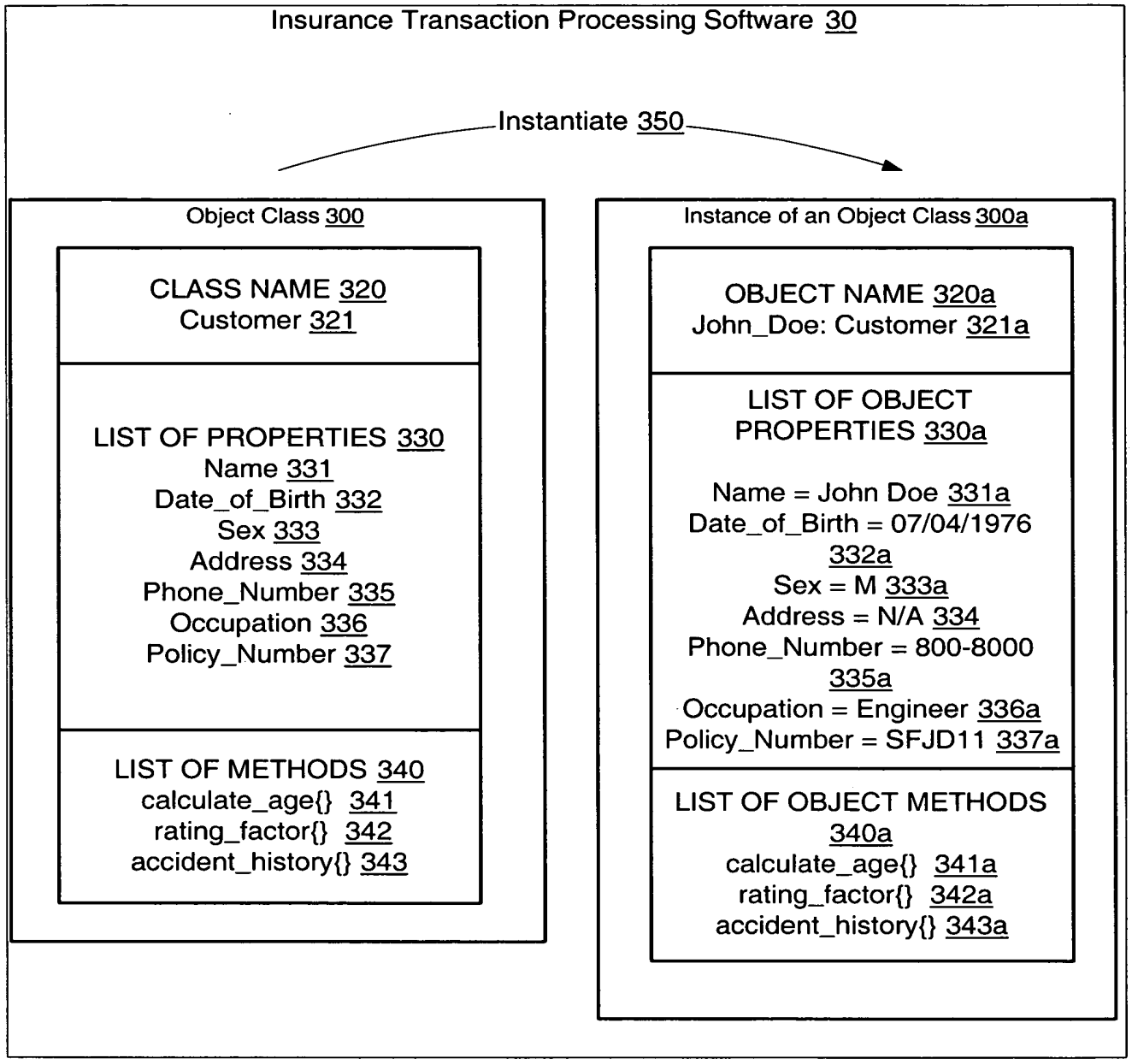

Insurance Transaction Processing Software 30
Instantiate 350
Object Class 300
CLASS NAME 320
Customer 321
LIST OF PROPERTIES 330
Name 331
Date_of_Birth 332
Sex 333
Address 334
Phone_Number 335
Occupation 336
Policy_Number 337
LIST OF METHODS 340
calculate_age{} 341
rating_factor{} 342
accident_history{} 343
Instance of an Object Class 300a
OBJECT NAME 320a
John_Doe: Customer 321a
LIST OF OBJECT PROPERTIES 330a
Name = John Doe 331a
Date_of_Birth = 07/04/1976 332a
Sex = M 333a
Address = N/A 334
Phone_Number = 800-8000 335a
Occupation = Engineer 336a
Policy_Number = SFJD11 337a
LIST OF OBJECT METHODS 340a
calculate_age{} 341a
rating_factor{} 342a
accident_history{} 343a

FIG. 3a

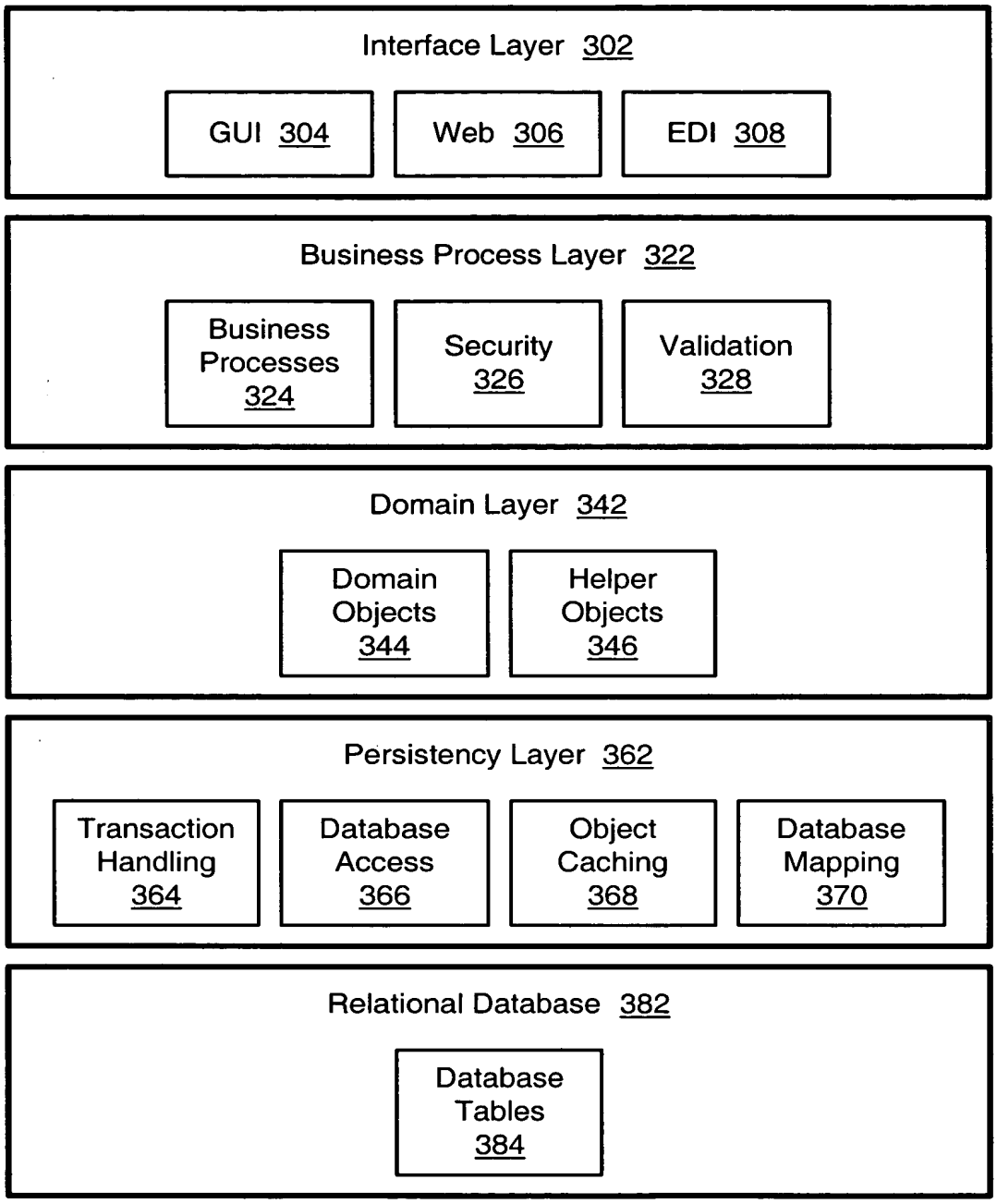

Interface Layer 302
GUI 304
Web 306
EDI 308
Business Process Layer 322
Business Processes 324
Security 326
Validation 328
Domain Layer 342
Domain Objects 344
Helper Objects 346
Persistency Layer 362
Transaction Handling 364
Database Access 366
Object Caching 368
Database Mapping 370
Relational Database 382
Database Tables 384

FIG. 3b

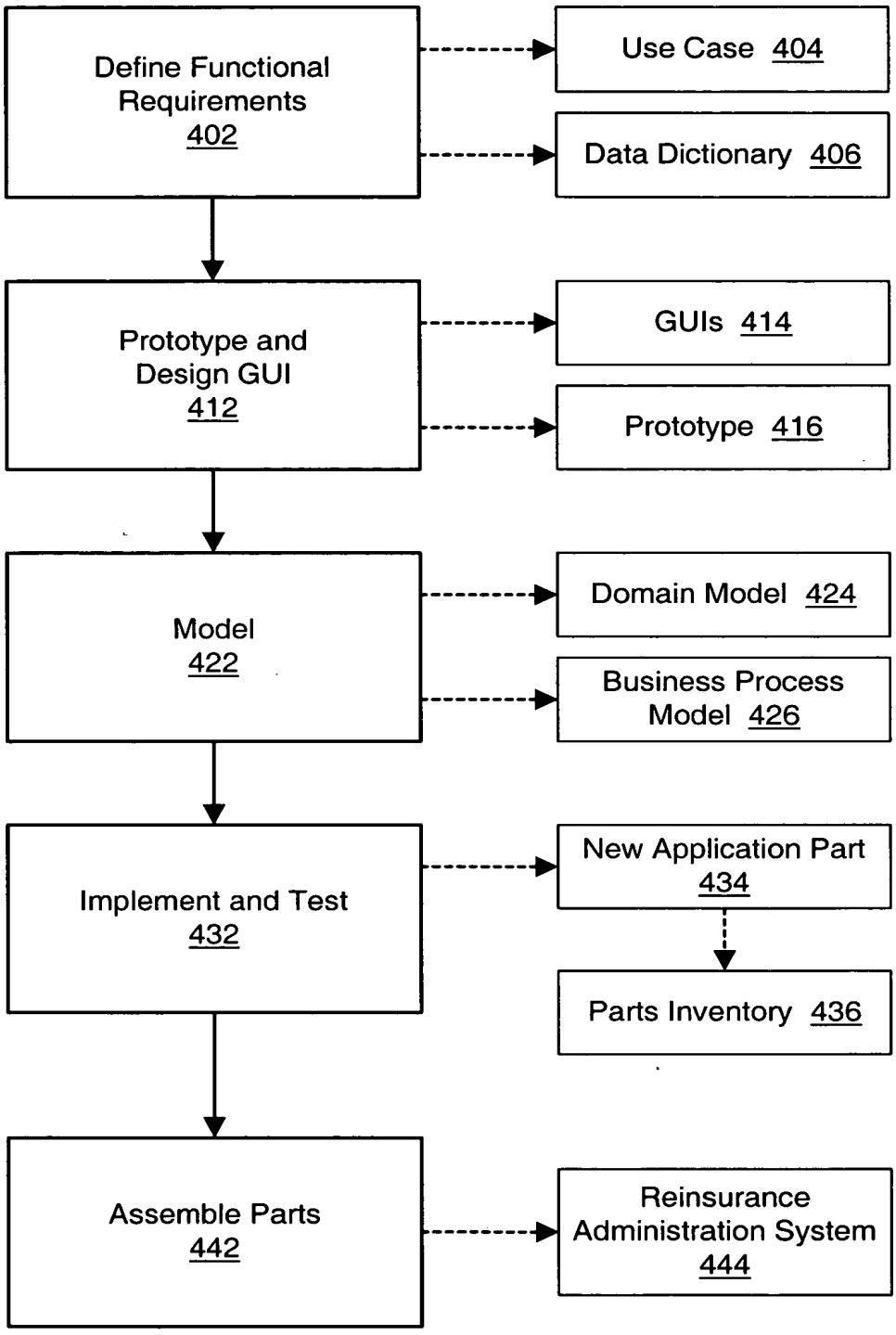

Define Functional Requirements 402
Use Case 404
Data Dictionary 406
Prototype and Design GUI 412
GUIs 414
Prototype 416
Model 422
Domain Model 424
Business Process Model 426
Implement and Test 432
New Application Part 434
Parts Inventory 436
Assemble Parts 442
Reinsurance Administration System 444

FIG. 4

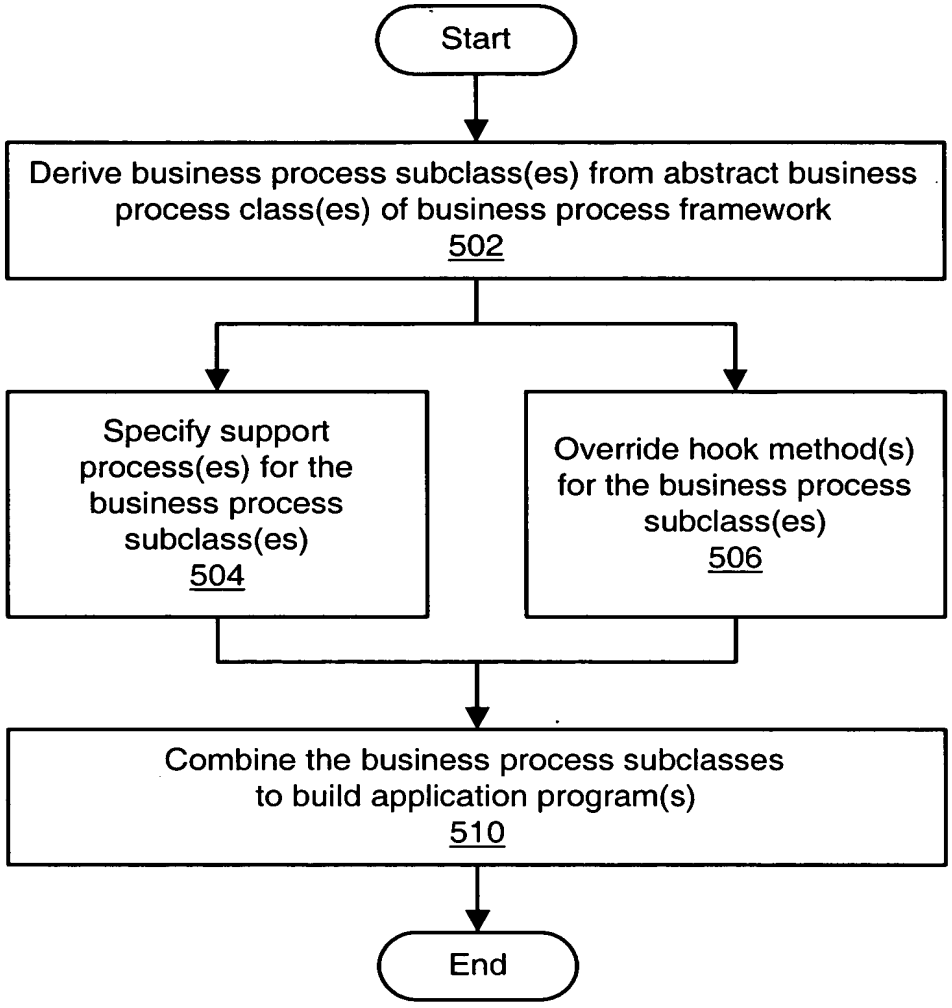

Start
Derive business process subclass(es) from abstract business process class(es) of business process framework
502
Specify support process(es) for the business process subclass(es)
504
Override hook method(s) for the business process subclass(es)
506
Combine the business process subclasses to build application program(s)
510
End

FIG. 5

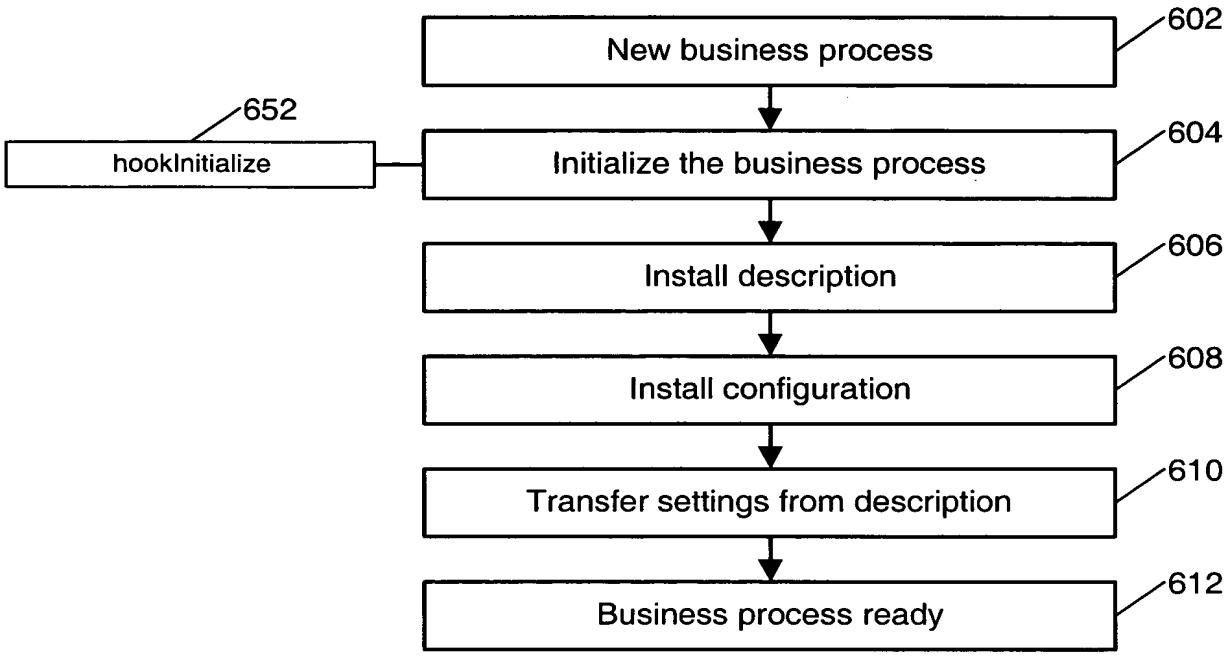

New business process
602
652
hookInitialize
Initialize the business process
604
Install description
606
Install configuration
608
Transfer settings from description
610
Business process ready
612

FIG. 6a

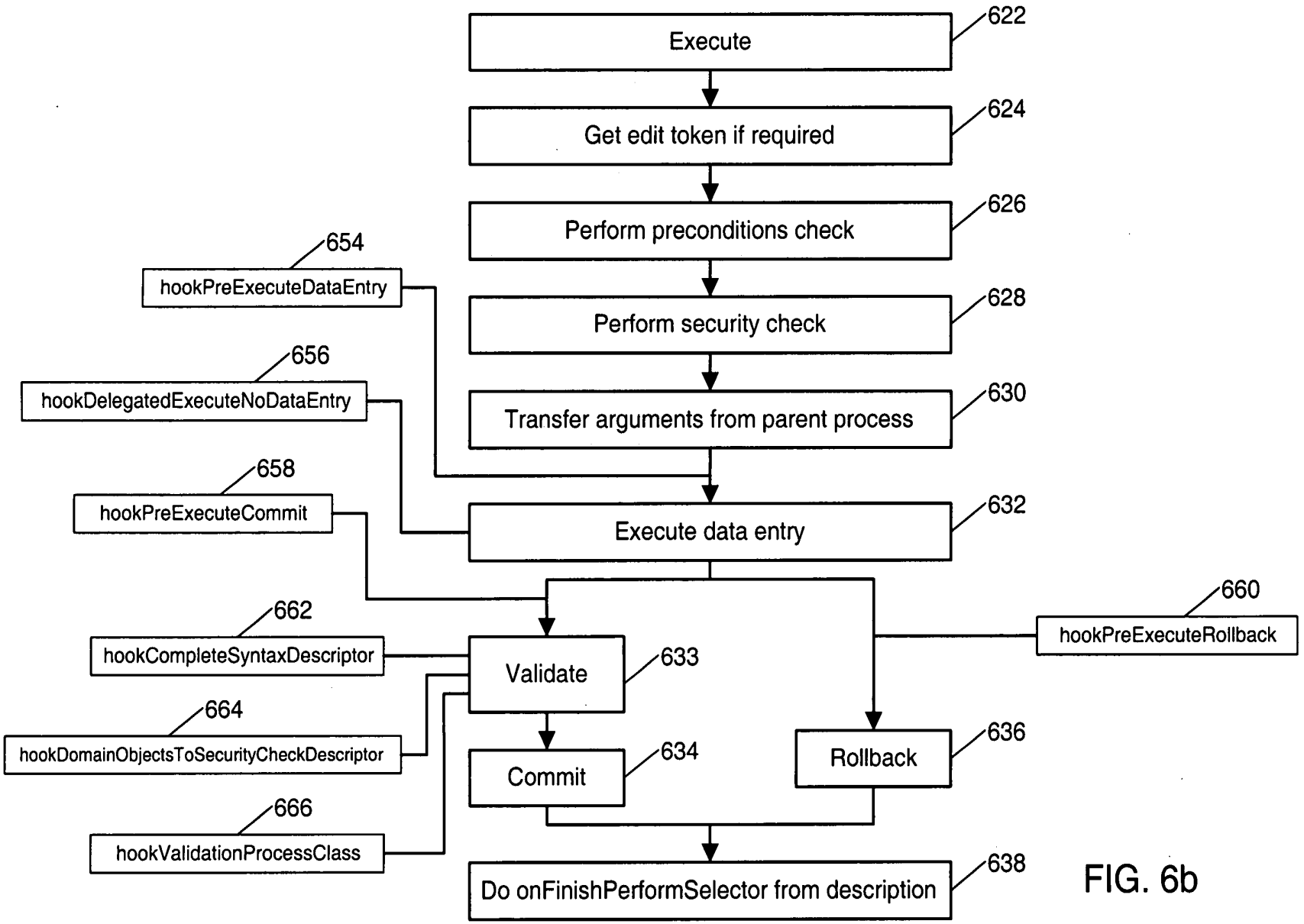

Execute
622
Get edit token if required
624
Perform preconditions check
626
Perform security check
628
Transfer arguments from parent process
630
Execute data entry
632
Validate
633
Commit
634
Rollback
636
Do onFinishPerformSelector from description
638
654
hookPreExecuteDataEntry
656
hookDelegatedExecuteNoDataEntry
658
hookPreExecuteCommit
660
hookPreExecuteRollback
662
hookCompleteSyntaxDescriptor
664
hookDomainObjectsToSecurityCheckDescriptor
666
hookValidationProcessClass

FIG. 6b

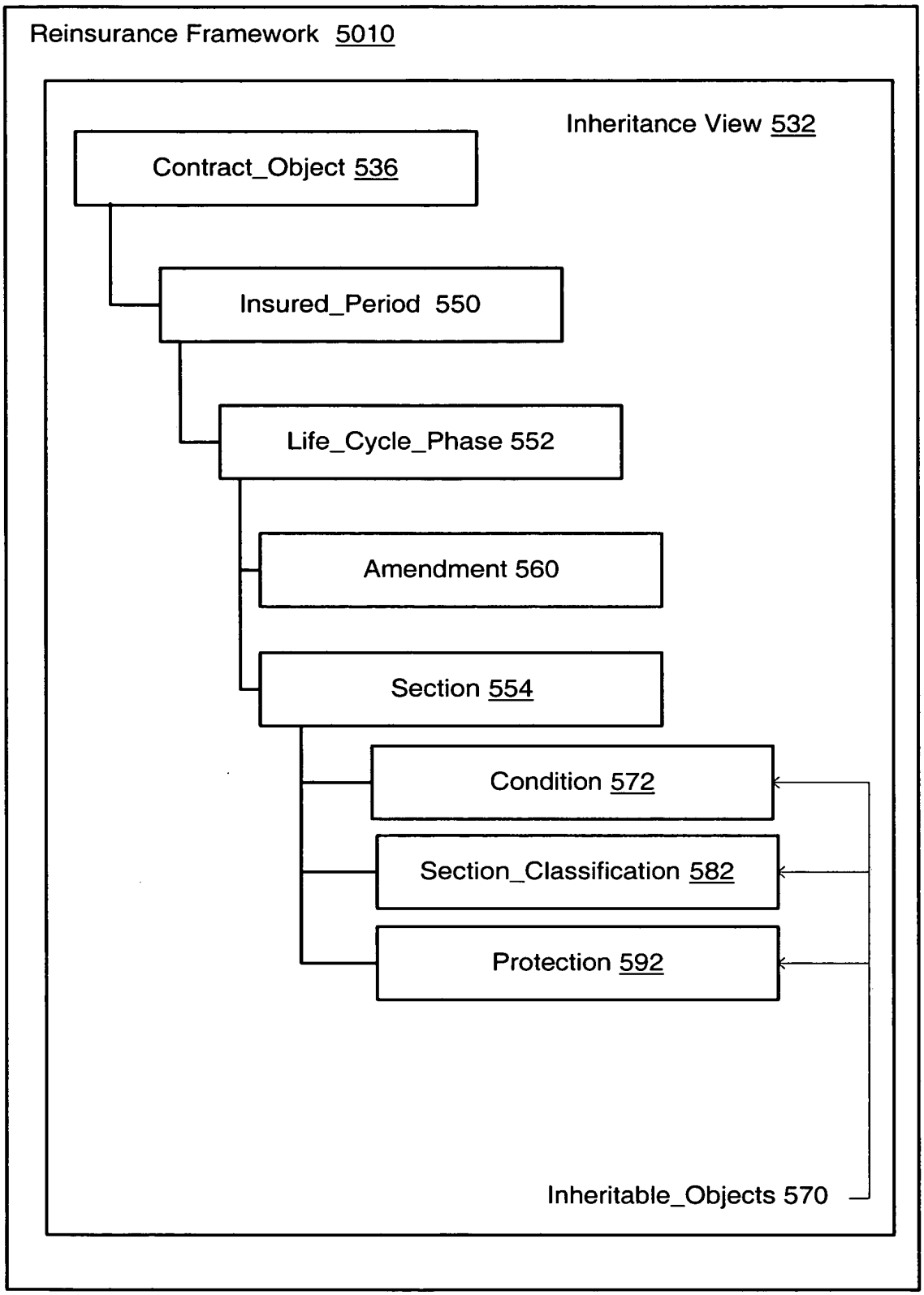
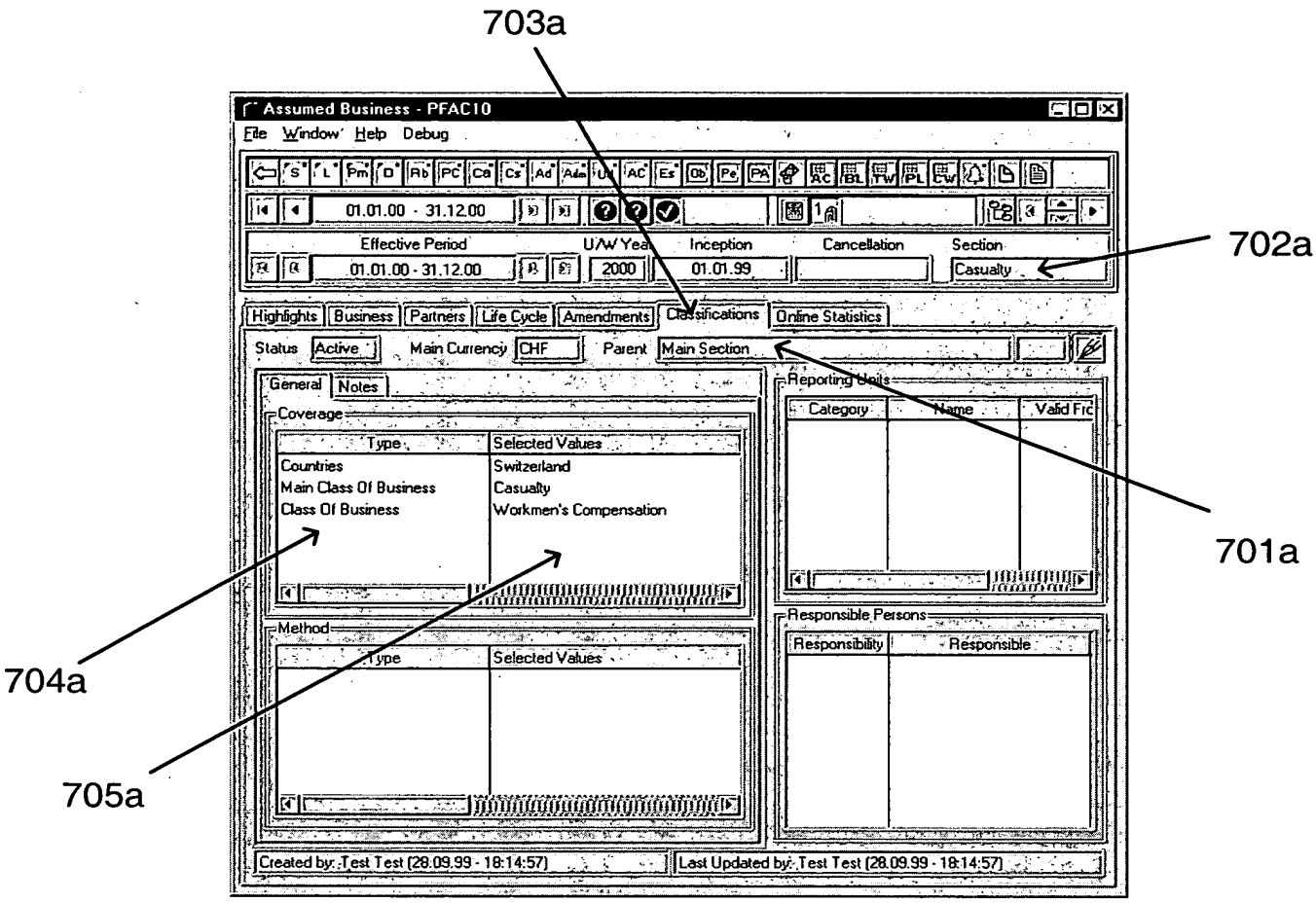

Reinsurance Framework 5010
Inheritance View 532
Contract_Object 536
Insured_Period 550
Life_Cycle_Phase 552
Amendment 560
Section 554
Condition 572
Section_Classification 582
Protection 592
Inheritable_Objects 570

FIG. 7a


703a
Assumed Business - PFAC10
File Window Help Debug
01.01.00 - 31.12.00
Effective Period
01.01.00 - 31.12.00
U/W Year
2000
Inception
01.01.99
Cancellation
Section
Casualty
702a
Highlights
Business
Partners
Life Cycle
Amendments
Classifications
Online Statistics
Status
Active
Main Currency
CHF
Parent
Main Section
701a
General
Notes
Coverage
Type
Selected Values
Countries
Switzerland
Main Class Of Business
Casualty
Class Of Business
Workmen's Compensation
Reporting Units
Category
Name
Valid Fro
Method
Type
Selected Values
Responsible Persons
Responsibility
Responsible
704a
705a
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Last Updated by: Test Test (28.09.99 - 18:14:57)

Fig 7b

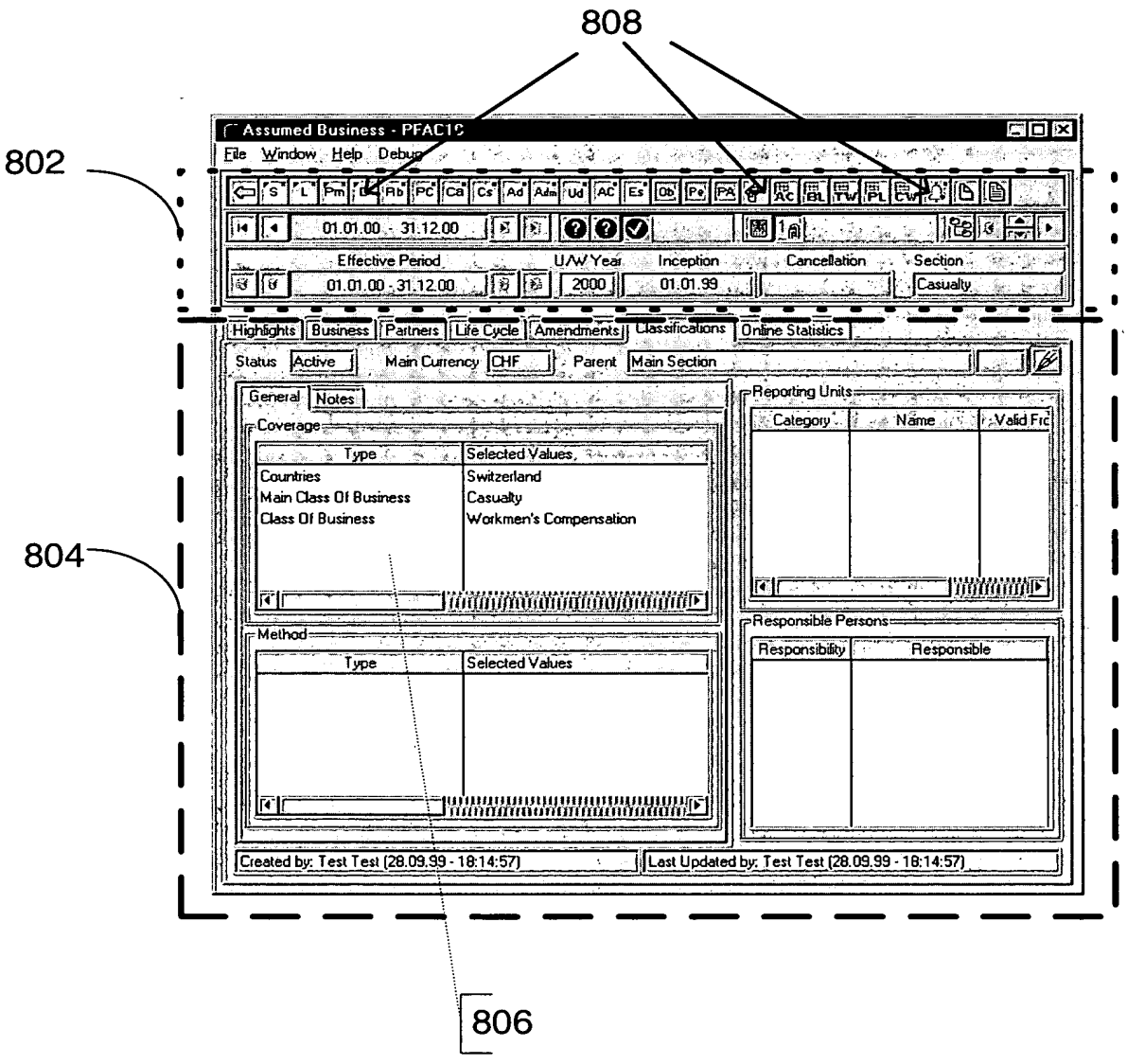
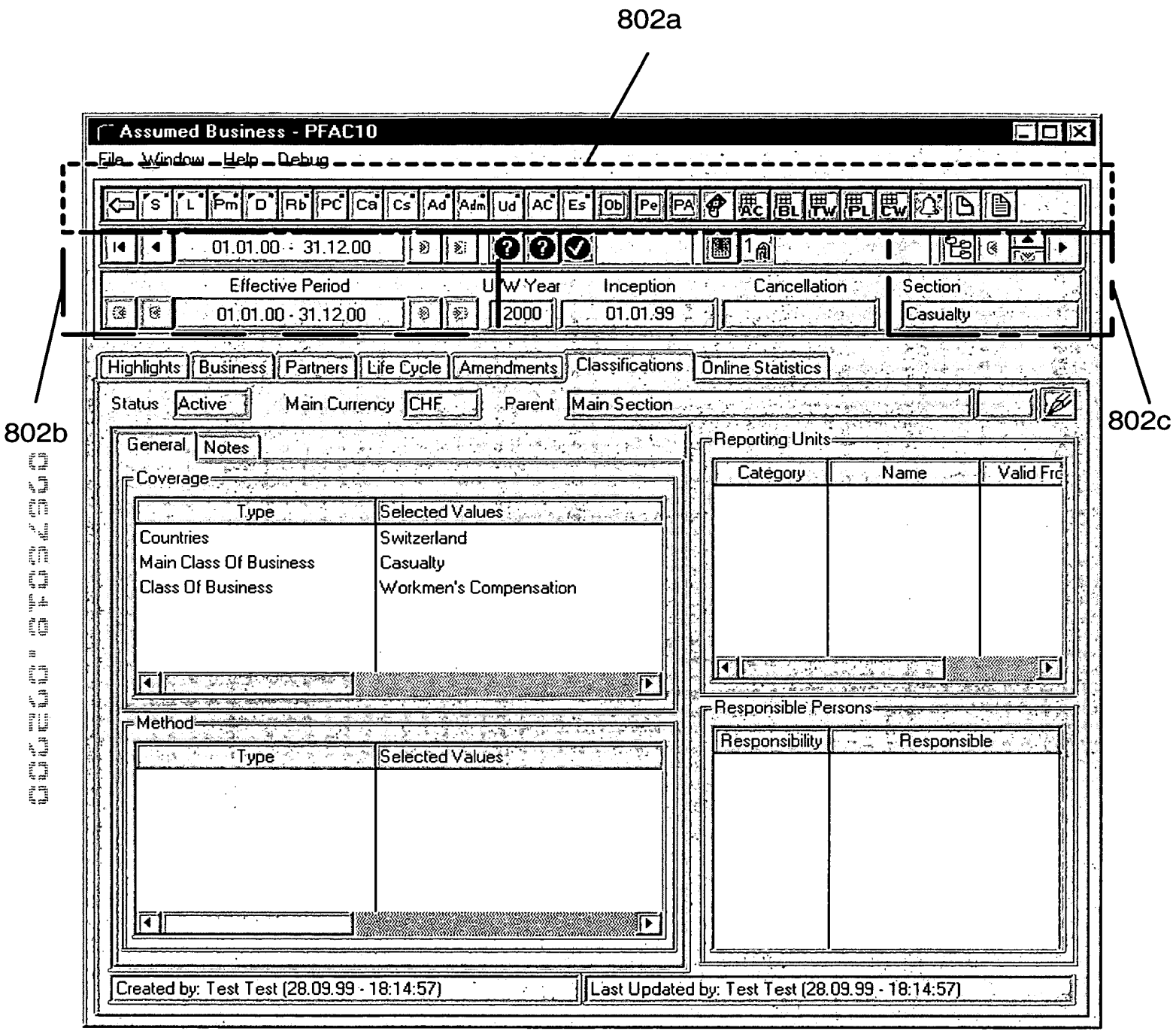

808
802
804
806
Assumed Business - PFAC1C
File Window Help Debug
01.01.00 - 31.12.00
Effective Period
01.01.00 - 31.12.00
U/W Year
2000
Inception
01.01.99
Cancellation
Section
Casualty
Highlights
Business
Partners
Life Cycle
Amendments
Classifications
Online Statistics
Status
Active
Main Currency
CHF
Parent
Main Section
General
Notes
Coverage
Type
Selected Values
Countries
Switzerland
Main Class Of Business
Casualty
Class Of Business
Workmen's Compensation
Reporting Units
Category
Name
Valid Fr
Method
Type
Selected Values
Responsible Persons
Responsibility
Responsible
Created by: Test Test (28.09.99 - 18:14:57)
Last Updated by: Test Test (28.09.99 - 18:14:57)

Fig 8a


802a
802b
802c
Assumed Business - PFAC10
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Effective Period
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UW Year
2000
Inception
01.01.99
Cancellation
Section
Casualty
Highlights
Business
Partners
Life Cycle
Amendments
Classifications
Online Statistics
Status
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CHF
Parent
Main Section
General
Notes
Coverage
Type
Selected Values
Countries
Switzerland
Main Class Of Business
Casualty
Class Of Business
Workmen's Compensation
Reporting Units
Category
Name
Valid Fro
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Type
Selected Values
Responsible Persons
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Responsible
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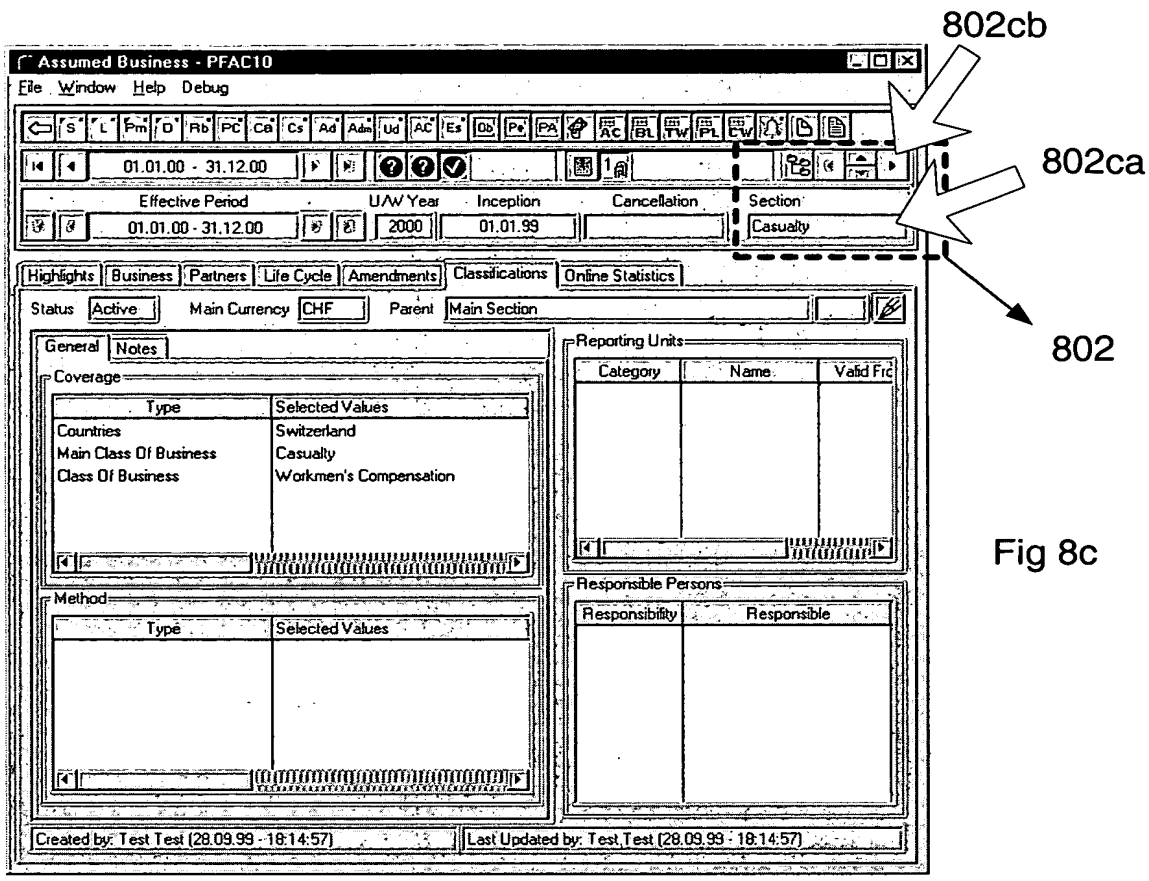
Last Updated by: Test Test (28.09.99 - 18:14:57)

Fig 8b


802cb
802ca
802
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Effective Period
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U/W Year
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Inception
01.01.99
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Casualty
Highlights
Business
Partners
Life Cycle
Amendments
Classifications
Online Statistics
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Main Section
General
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Coverage
Type
Selected Values
Countries
Switzerland
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Casualty
Class Of Business
Workmen's Compensation
Reporting Units
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Name
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Type
Selected Values
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Responsible
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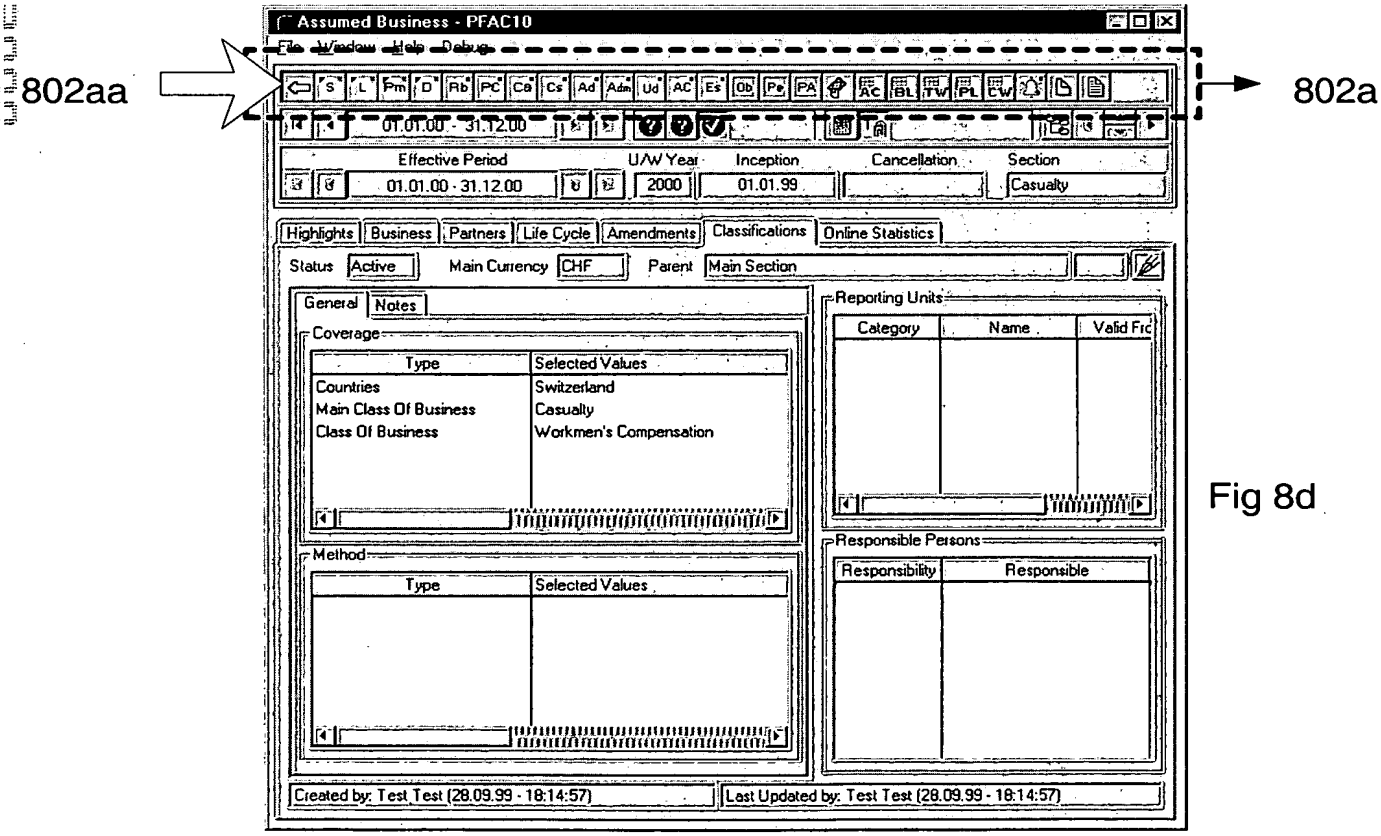
Last Updated by: Test Test (28.09.99 - 18:14:57)

Fig 8c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802a
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U/W Year
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01.01.99
Cancellation
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Casualty
Highlights
Business
Partners
Life Cycle
Amendments
Classifications
Online Statistics
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CHF
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Main Section
General
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Coverage
Type
Selected Values
Countries
Switzerland
Main Class Of Business
Casualty
Class Of Business
Workmen's Compensation
Reporting Units
Category
Name
Valid Fro
Method
Type
Selected Values
Responsible Persons
Responsibility
Responsible
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Fig 8d